Author Index

Abe, Y., 137
Adel, G. T., 195
Akapo, S., 237
Akiyama, T., 181
Andersson, B.-Å., 25
Andres, U., 265
Arnaldos, J., 93

Bello, A., 169

Campanella, O. H., 55
Casal, J., 93
Clark, N. N., 279

Davis, R. H., 285
Dhodapkar, S., 187
Dry, R. J., 17

El-Faham, T. H., 107

Feurstenau, D. W., 39

García-Ochoa, F., 169
Gottschalk, J., 131
Gujima, F., 271

Hafez, E., 107
Haider, A., 63
Hassen, M. A., 285
Honma, T., 137, 175
Hosoya, T., 137
Husemann, K., 131

Ibrahim, S. A., 107

Josewiscz, W., 221

Kanda, Y., 137, 175
Kang, S. K., 211
Kanpur, P. C., 39
Kawashima, Y., 259
Kendall, K., 151
Khong, T. M., 237
Kim, S. D., 211
King, R. P., 231
Kirchgessner, D. A., 221
Klinzing, G. E., 187
Kuriyama, T., 125
Kusakabe, K., 125, 271
Kwon, T. W., 211

Leckner, B., 25
Levenspiel, O., 63
Lin, C. J., 231
Lodes, A., 163
Luckham, P. F., 75

Marui, T., 181
Matsuyama, H., 271
Mehta, R. K., 195
Meloy, T. P., 11
Mierka, O., 163
Miller, J. D., 231
Mohamed, F. A., 107
Mori, S., 259
Morooka, S., 125, 271
Murata, H., 175
Myler, C. A., 187

Nomura, S., 117

Ohnishi, N., 271

Peleg, M., 55, 145
Pellicer, 93
Popplewell, L. M., 55, 145

Rao, T. C., 99
Renganathan, K., 279
Romero, A., 169

Sapru, V., 55
Simpson, C. P., 237
Sugimori, K., 259
Surya Kumar, S., 99

Tanaka, T., 117
Tien, C., 243
Toussaint, B., 237
Turton, R., 279

Ushiki, K., 243

Vanangamudi, M., 99
Van Egmond, J. W., 11
Villar, J. C., 169
Visser, J., 1

Wang, Y., 49
Watson, J. L., 49
White, C. C., 17

Yashima, S., 137
Yates, J. G., 237
Yoon, R. H., 195

Zaltash, A., 187

© Elsevier Sequoia/Printed in The Netherlands

Powder Technology, *58* (1989) 297 - 299

Subject Index

Accelerating motion
  of geometric and spherical particles in a fluid, 279
Activation and reactivity of novel calcium-based sorbents
  for dry SO_2 control in boilers, 221
Analysis
  of filter candle performance, 243
  of mill capacity using a theoretically derived selection function applied to ball and Hardgrove mills, 117

Catalyst FCC
  gas residence-time characteristics in a high-velocity circulating fluidized bed of, 17
Characterization
  of conveying processes in ball mills by rheological parameters, 131
  of die wall pressure to predict capping of flat- or convex-faced drug tablets of various sizes, 259
Coal
  effect of fines content on froth flotation of, 99
Cohesive forces
  affecting powder fluidization, 1
Consideration of ultrafine grinding
  based on experimental result of single particle crushing, 137
Conveying processes in ball mills
  characterization of, by rheological parameters, 131
Cyclone
  straight-through, dust collection efficiency of, 181

Dewatering
  multi-stage, mutli-force, of steelmaking sludges, 49
Die wall pressure
  characterization of, to predict capping of flat- or convex-faced drug tablets of various sizes, 259
Disintegration of rock
  by electrical pulses, parameters of, 265
Dissolution enhancement
  of thiacetazone via ordered mixing technique, 107
Drag coefficient
  and terminal velocity of spherical and nonspherical particles, 63
Duct length
  effect of, on dust collection efficiency of a straight-through cycline, 181
Dust collection efficiency
  of a straight-through cyclone; effects of duct length, guide vanes and nozzle angles for secondary rotational air flow, 181

Effect of fines content
  on flotation of coal, 99
Effect of particle interactions
  on the determination of size distributions by sedimentation, 285
Electrical pulses
  disintegration of rock by, 265
Erosion index
  to characterize fines production in size reduction processes, 145

Filter candle performance
  analysis of, 243
Fine particles
  fluidization of, at reduced pressure, 125
Fines
  measurement of local movement of, in a fluidized bed of coarse particles, by a fluorescent tracer technique, 271
Fines content
  effect of, on froth flotation of coal, 99
Fines production
  in size reduction processes, characterization of, by an erosion index, 145
Flow
  two-phase solid–gas, particle velocities in, 163
Fluidization
  of fine particles at reduced pressure, 125
  of powders, van der Waals and other cohesive forces affecting, 1
Fluidized bed
  of coarse particles, measurement of local fines movement in, by a fluorescent tracer technique, 271
  gas–solid, segregation of particles of different density in a, 169
  high-velocity circulating, of FCC catalyst, gas residence-time characteristics in, 17
Fluidized bed boiler
  particle mass flux in freeboard of, 25
Fluorescent tracer technique
  for measurement of movement of local fines in a fluidized bed of coarse particles, 271
Freeboard of fluidized bed boiler
  particle mass flux in, 25
Friction factor
  for solids in horizontal conveying systems, simplified correlation for, based on Yang's unified theory, 187
Froth flotation of coal
  effect of fines content on, 99

Gas residence-time characteristics
  in a high-velocity circulating fluidized bed of FCC catalyst, 17
Grinding
  mixtures of coal and iron in order to prepare material for coal liquefaction, 175

© Elsevier Sequoia/Printed in The Netherlands

ultrafine, consideration of, based on experimental result of single particle crushing, 137
Grinding tests
locked-cycle, simulation of, using multicomponent feeds, 39
Guide vanes
effect of, on dust collection efficiency of a straight-through cyclone, 181

Hydrodynamic characteristics of cyclone reactors, 211

Influence of powder structure
on processing and properties of advanced ceramics, 151
Interparticle forces
measurement of, 75
Iron ore and coal mixtures
grinding of, in order to prepare material for coal liquefaction, 175

Liberation of symmetrical particles non-homogeneous, lockedness profile for, 11
Liberation modelling
and parameter estimation for multicomponent mineral systems, 195
Liquefaction of coal
grinding of mixtures of coal and iron ore in order to prepare material for, 175
Locked-cycle grinding tests
using multicomponent feeds, simulation of, 39
Lockedness profile
for non-homogeneous liberation of symmetrical particles, 11

Measurement
of external surface area of powders by a permeametric method, 93
of interparticle forces, 75
of local fines movement in a fluidized bed of coarse particles by a fluorescent tracer technique, 271
Mill capacity
analysis of, using a theoretically derived selection function applied to ball and Hardgrove mills, 117
Mills
ball and Hardgrove analysis of mill capacity by applying a theoretically derived selection function to, 117
Mineral liberation analysis
valadity of PARGEN simulation for, 231
Mineral systems
multicomponent, liberation modelling and parameter estimation for, 195
Mixtures
of coal and iron ore, grinding of, in order to prepare material for coal liquefaction, 175
Movement of local fines
in a fluidized bed of coarse particles, measurement of, by a fluorescent tracer technique, 271
Multicomponent feeds
simulation of locked-cycle grinding tests using, 39
Multi-force, multi-stage dewatering of steelmaking sludges, 49

Novel calcium-based sorbents
for dry SO_2 control in boilers, activation and reactivity of, 221
Novel method
for determining the particles density of porous aeratable powders, 237
Nozzle angle
effect of, on dust collection efficiency of a straight-through cyclone, 181

Ordered mixing technique
for dissolution enhancement of thiacetazone, 107

Parameter estimation
and liberation modelling for multicomponent mineral systems, 195
Parameters of disintegration of rock by electrical pulses, 265
PARGEN simulation
for mineral liberation analysis, validity of, 231
Particle interactions
effects of, on the determination of size distributions by sedimentation, 285
Particle mass flux
in the freeboard of a fluidized bed boiler, 25
Particle velocities
in two-phase solid–gas flow, 163
Particles
of different density, segregation of, in a gas–solid fluidized bed, 169
geometric and spherical, accelerating motion of, in a fluid, 279
spherical and nonspherical, drag coefficient and terminal velocity of, 63
Particles density
of porous aeratable powders, novel method for determining, 237
Permeametric method
for measuring external surface area of powders, 93
Powder fluidization
van der Waals and other cohesive forces affecting, 1
Powder mixtures
binary, theoretical comparison of segregation indices for, 55
Powders
measurement of external surface area of, by a permeametric method, 93
porous aeratable, novel method for determining density of, 237
Powder structure
influence of, on processing and properties of advanced ceramics, 151

Reactivity and activation of novel calcium-based sorbents for dry SO_2 control in boilers, 221
Rheological parameters
for characterizing conveying processes in ball mills, 131

Sedimentation
effects of particle interactions on determination of size distributions by, 285
Segregation
of particles of different density in a gas–solid fluidized bed, 169

Segregation indices
for binary powder mixtures, theoretical comparison of, 55
Simplified correlation for solids friction factor
in horizontal conveying systems based on Yang's unified theory, 187
Simulation of locked-cycle grinding tests using multicomponent feeds, 39
Size distributions
effects of particle interactions on the determination of, by sedimentation, 285
Size reduction processes
characterization of, by an erosion index, 145
Sorbents
novel calcium-based, for dry SO_2 control in boilers, activation and reactivity of, 221
Steelmaking sludges
multi-stage multi-force dewatering of, 49
Study of segregation
of particles of different density in a gas–solid fluidized bed, 169
Sulphur dioxide control in boilers
activation and reactivity of novel calcium-based sorbents for, 221
Symmetrical particles
non-homogeneous, lockedness profile for liberation of, 11

Tablets
drug, of various sizes, flat- or convex-faced, characterization of die wall pressure to predict capping of, 259
Terminal velocity
and drag coefficient of spherical and nonspherical particles, 63
Theoretical comparison of two segregation indices
for binary powder mixtures, 55
Thiacetazone
enhancement of dissolution of, via ordered mixing technique, 107

Validity of PARGEN simulation
for mineral liberation analysis, 231
van der Waals
and other cohesive forces affecting powder fluidization, 1

Yang's unified theory
simplified correlation for solids friction factor in horizontal conveying systems based on, 187